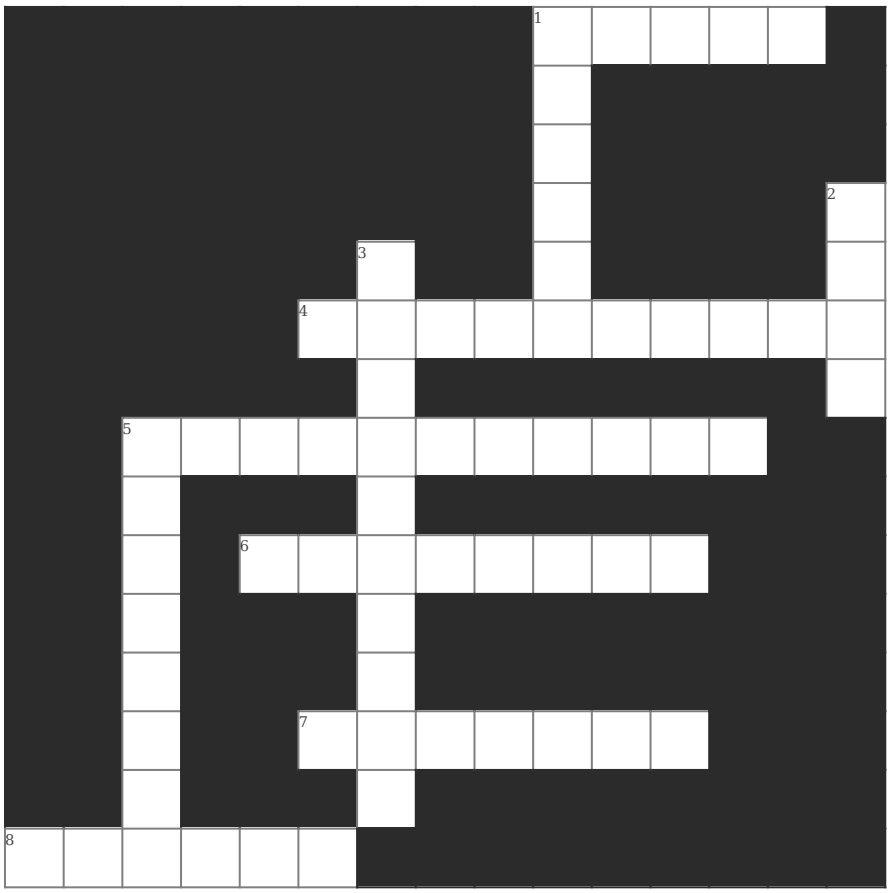
Part 7b · The Crossword

Same rules as an ordinary crossword — but every word is maths vocabulary from this chapter.



ACROSS

1. ___ height, the distance from the apex of a cone to its base circle (5)

4. a hollow scooped out of a solid, e.g. in a bird-bath (10)

5. a solid made by joining two or more basic solids together (11)

6. the volume a hollow container can actually hold (8)

7. what remains of a cone after its top is sliced off parallel to the base (7)

8. the type of surface area that excludes flat circular faces (6)

DOWN

1. a perfectly round solid, every surface point equidistant from the centre (6)

2. a solid that tapers smoothly from a circular base to a single apex (4)

3. exactly half a sphere, cut through its centre (10)

5. a solid with two parallel circular bases joined by a curved surface (8)

From a playing top to a bird-bath, every combined solid this chapter throws at you reduces to the same two golden rules: surface areas only count what is still exposed, volumes simply add. Get those two sentences right and the arithmetic takes care of itself. □□